Sample Output:









Performance Document:

Performance of AVL:



Performance of BST:



Performance of SLL:





Performance of DLL:





Performance is affected in each data structure because the way of travelling into data in each data structure is different. In SLL time increases with the size and same with the DLL but in DLL we can traverse in both directions. In BST we can compare and traversing is possible so all unnecessary data is avoided while traversing so performance is increased. In AVL works same way as BST but at each level the height is balanced so if we add same number of nodes in AVL and BST, AVL tree has less height compared to the BST by which performance can increase.